DISTRICT SALES OFFICES

See your Insulator Department representative for complete technical information on Pin Types, Spools & Guy Insulators, or write directly to: Insulator Department, General Electric Company, South Charles and Cromwell Streets, Baltimore 30, Maryland.

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South Charles and Cromwell Streets

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Room 111

INSULATOR DEPARTMENT

GENERAL ELECTRIC

BALTIMORE, MARYLAND

TIA-187-5 (11M) 11-62

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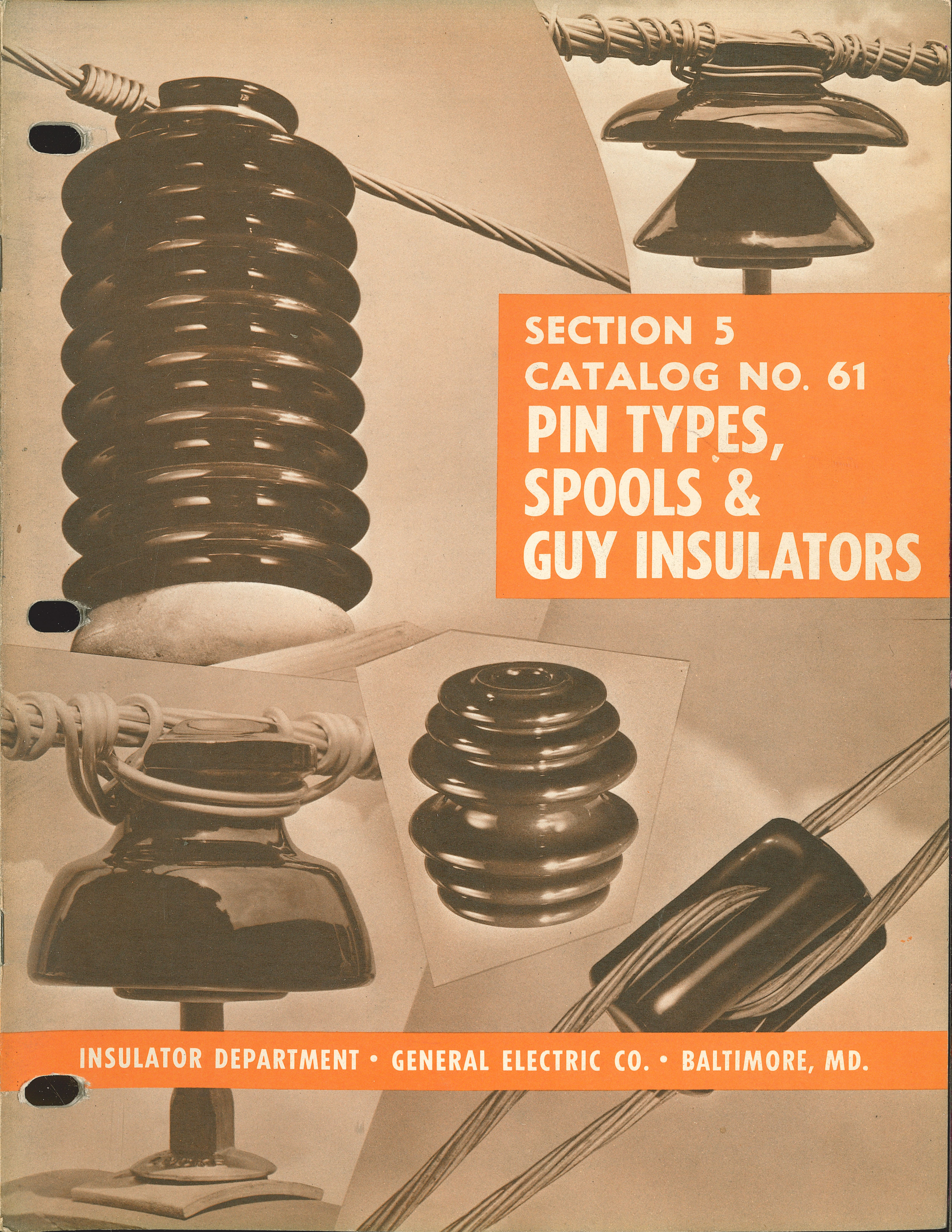


SECTION 5
CATALOG NO. 61
PIN TYPES, SPOOLS & GUY INSULATORS

INSULATOR DEPARTMENT • GENERAL ELECTRIC CO. • BALTIMORE, MD.

PIN TYPE INSULATORS

TABLE OF CONTENTS

PIN TYPE INSULATORS Page
General Information 1, 2, 3
One Piece, Low Voltage 4, 5
Multipart, High Voltage 6, 7
Thimbles 8

LINE POST INSULATORS
Design Features 9
15 KV - 69 KV 10, 11
Studs 12
Mounting Hardware 12

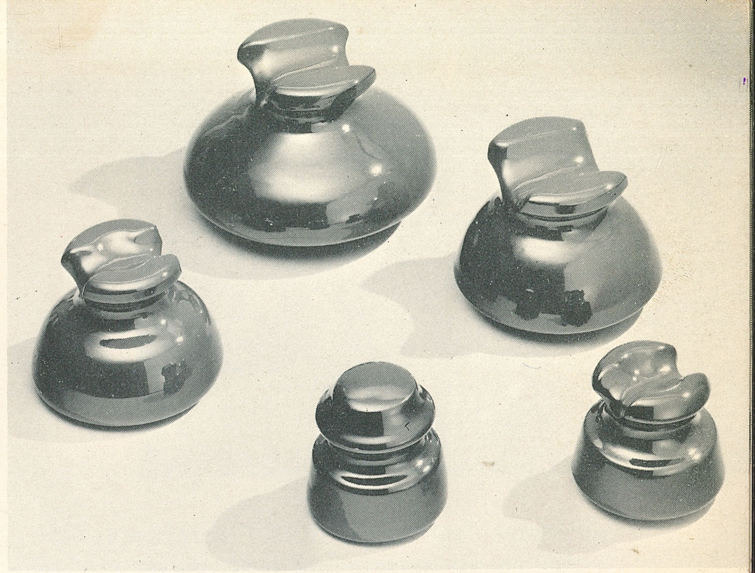
SPOOL AND GUY INSULATORS Page
General Information 13
Spools 14
Guy Insulators, Closed End 15
Guy Insulators, Open End 16

COMPARATIVE CATALOG NUMBERS Inside Back Cover

NUMERICAL INDEX

Catalog Number	Page
2NP	4, 5
44NP	4, 5
355	14
502	15
504	15
506	15
0606	14
0608	14
0609	14
0613	14
0716	14
1027NP	6, 7
1035NP	6, 7
1044NP	6, 7
1055NP	6, 7
1066NP	6, 7
1070NP	6, 7
4302	8
7665	15
7666	15
9521	8

Catalog Number	Page
9522	8
9543	8
9543-1	8
9995NP	4, 5
23201-23206	10, 11
23208	10, 11
23534NP	4, 5
23535NP	4, 5
24210	16
24212	16
24213	16
24221	16
24272	16
24273	16
24369	16
27540-27543	12
27547	12
27549	12
27550	12
77939	8



ASA Standard Low Voltage Pin Type Insulators.

BUILT FOR LONG SERVICE

Locke* Pin Type Insulators are manufactured to provide many years of reliable and dependable service. Exacting quality control requirements and rigid production testing assure a consistent high level of quality in every insulator. Highest quality wet process porcelain together with proven designs provide greater protection from lightning, freedom from RI and TV interference and lessen the chance of breakage.

This Locke Pin Type Insulator, after 47 years of service in South Dakota, is still good for re-use.

YOU BENEFIT BY ASA STANDARD

The designs and specifications of all Locke Pin Type Insulators, except where "special application" is noted, conform with specifications ASA C29.5&6. The reason for writing these specifications was the expressed need by utility insulator users for standardization on insulators which would meet the requirements of the majority. By eliminating many former designs, they reduced procurement and stocking problems. By concentrating production on fewer types, manufacturers are able to give better service. Where special non-standard insulators are required, consult your Insulator Department representative.

RADIO NOISE FREED PIN TYPES

ASA Standard pin type insulators are furnished radio noise freed unless otherwise specified. This is achieved by the use of semi-conducting Metaglaze.

The elimination of radio noise on certain insulators calls for a semi-conducting layer on the porcelain surface. This is accomplished by the use of Metaglaze which contains metallic oxides in precise proportion, to obtain specific high-resistance properties. This glaze is applied on the desired areas only, under the regular glaze. The pyro-chemical reactions of firing cause thorough bonding and result in superior radio-influence characteristics unaffected by exposure, chemical fumes, abrasion—even sandblasting of portions of the conducting area. Here, too, glaze thickness control is essential, as resistivity varies with

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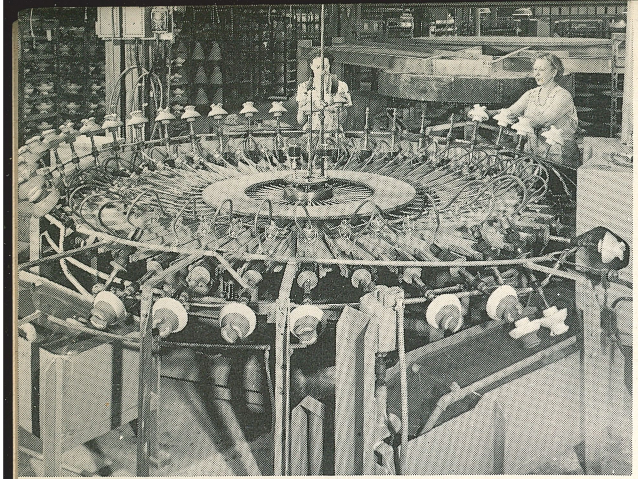
*Registered trademark of the General Electric Co.

PIN TYPE INSULATORS



glaze thickness as shown by Figure 1. Automatic glazing machines safeguard this important element of insulator quality.

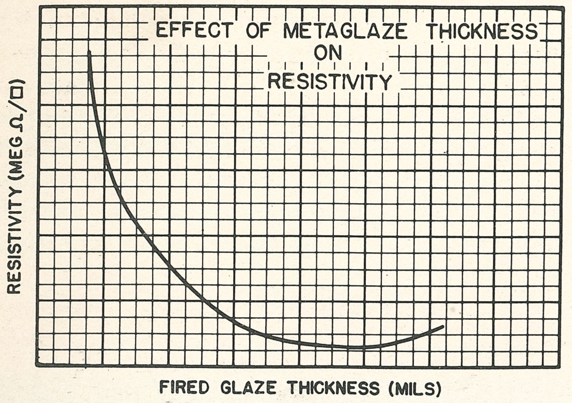


Figure 1

This diagram shows why, on Locke Pin Type Radio Noise Free Insulators, Metaglaze thickness is carefully controlled to achieve minimum resistivity.

On low-voltage one-piece pin type insulators, the semi-conducting coating is applied to wire groove surfaces and pin holes. The conducting coating reduces the possibility of corona formation at operating voltages across small air spaces between conductor and wire groove surfaces, as well as between metal pins and pin hole surfaces. The area covered by the permanent conducting glaze remains at approximately the same potential as the adjacent metal surface, short-circuiting corona discharges and reducing radio noise. The metallic shell cemented into pin holes of high voltage pin types makes the conducting coating of pin holes unnecessary.

INSULATION LEVELS

Insulation levels in general usage for pin type insulators are shown by Figure 2. The curves are plotted as bands to encompass the range of levels in normal use. They are based on AIEE standard test ratings and the impulse bands represent the critical impulse flashover voltages resulting from the polarity which yields the lowest values (positive polarity, in most cases). The levels selected within the bands will be influenced by severity of service, importance of the line and economic considerations.

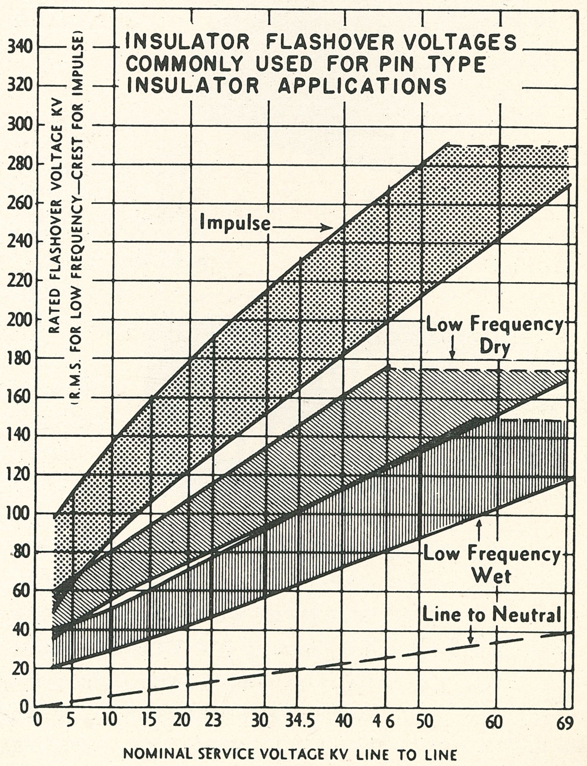


Figure 2

DATA TABLE NOTES

RADIO INFLUENCE VALUES

The Radio Influence Values in the tables apply only to new pin type insulators, tested in the factory, and are the maximum microvolt ratings when tested at the indicated test voltage to ground. Tests are made in accordance with current NEMA-EEI-RMA recommendations on methods of measuring radio noise, NEMA publication #107, ASA C-29.1-1961, or latest revisions. The low frequency RMS test voltage values are approximately 10% higher than the line to ground voltage at which these insulators are usually operated.

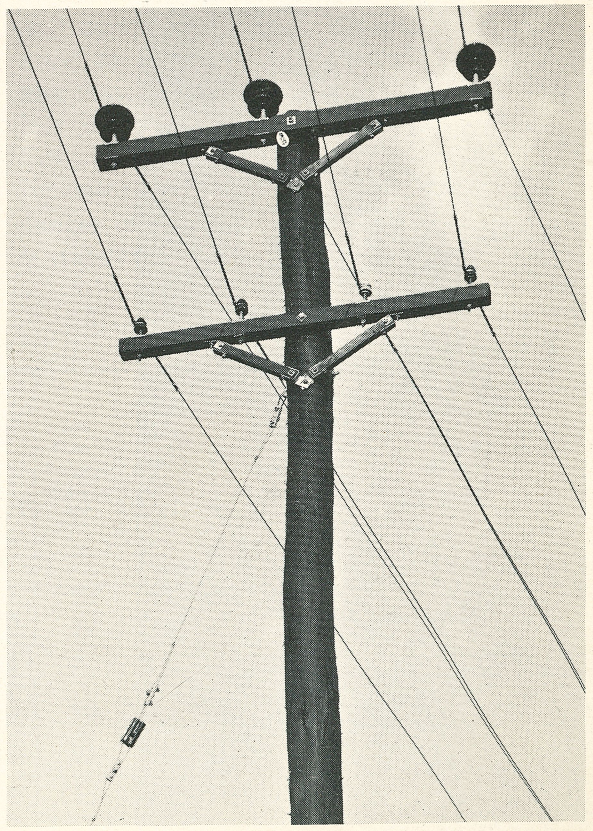
HIGH RESISTANCE COATINGS

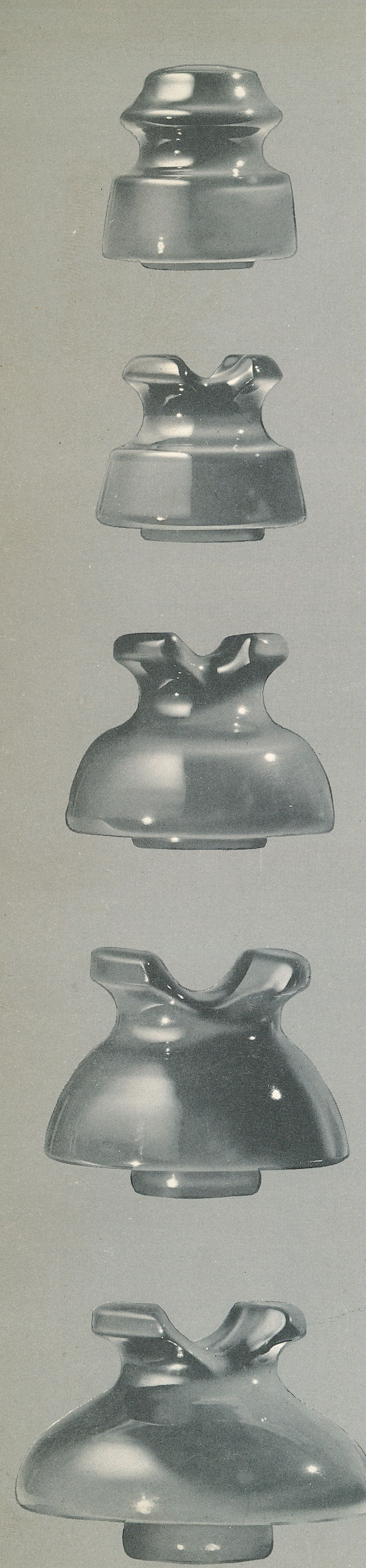
Where high resistance coatings are applied, the distance over such coatings is considered effective leakage distance. Because of the semi-conducting nature of this coating, the sixty cycle and impulse flashover values of radio noise freed insulators class 55-1 through 55-5 may be 10% lower than the tabulated ratings.

PIN HOLES

Low voltage distribution pin type insulators may be used with wood or steel pins and are furnished with 1″ diameter threaded pin holes. These threads are in conformance with ASA standards C29.5. Statistical sampling techniques are used to maintain the exacting quality levels required by General Electric standards.

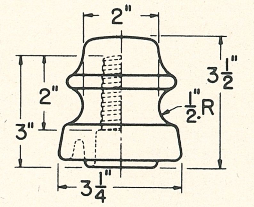
At higher voltages, modern practice favors the usage of steel pins since leakage currents over the insulator may char or burn wood pins. High voltage pin types are furnished with 1⅜″ diameter thimbles cemented into the pin holes and are in conformance with ASA standards C29.6. Other thimbles are also available on special request for use with pins having thread diameters of ¾″, 1″, or 1⅛″.



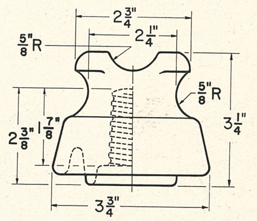


ASA
PIN TYPE
FOR 23 KV

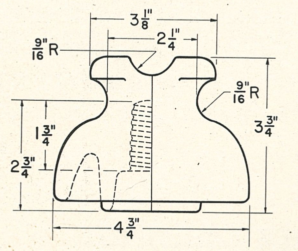
ONE PIECE
LOW VOLTAGE
RADIO NOISE FREED



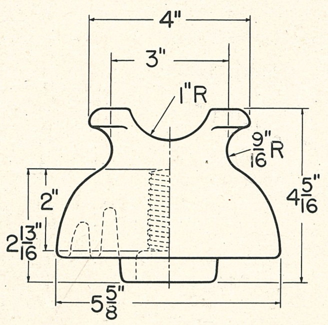
NO. 44NP



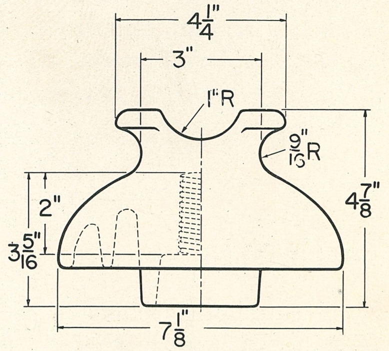
NO. 2NP



NO. 9995NP

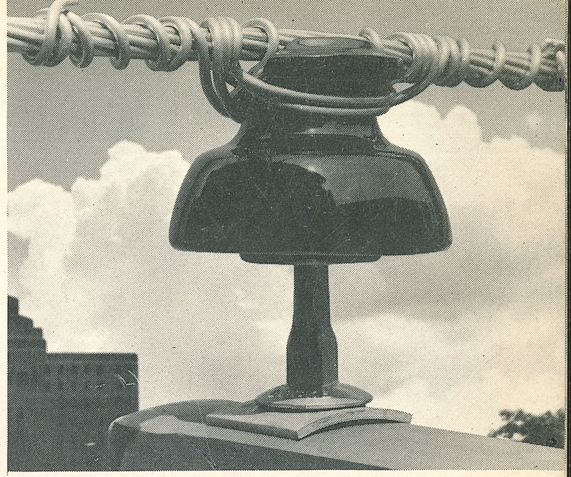


NO. 23534NP



NO. 23535NP

STANDARD C29.5
INSULATORS
OR BELOW



These insulators are primarily used on rural and urban distribution circuits for voltages below 23 KV. They meet the specifications of the ASA Standard C29.5 for low voltage pin type insulators. Standardization on these five radio noise freed insulators, which will meet all requirements in their voltage range, can mean substantial savings to you. The basic design of these insulators employs the principle of 'protected leakage' distance, as contrasted with the exposed leakage distance of 'high top' insulators.

CONDUCTOR GROOVES

The conductor grooves of the one piece pin type insulators will accommodate the majority of conductor sizes used on distributor circuits. The smooth, well formed, bell mouthed top grooves provide adequate support and minimize abrasion from oscillatory motion of the conductor.

Consistent with the trend to higher distribution voltage and increased loads, the top conductor grooves of the Cat. #23534NP and Cat. #23535NP will carry conductors up to 1¾" diameter.

MINIMUM MANDREL SEATED BY CONDUCTOR GROOVES	44NP 2NP 9995NP	15/16" 1 3/16" 1 1/16"	23534NP 23535NP	1¾" 1¾"

CONSTRUCTION FEATURES

1. The deep, open corrugations develop full leakage distance and prevent bridging during rain.

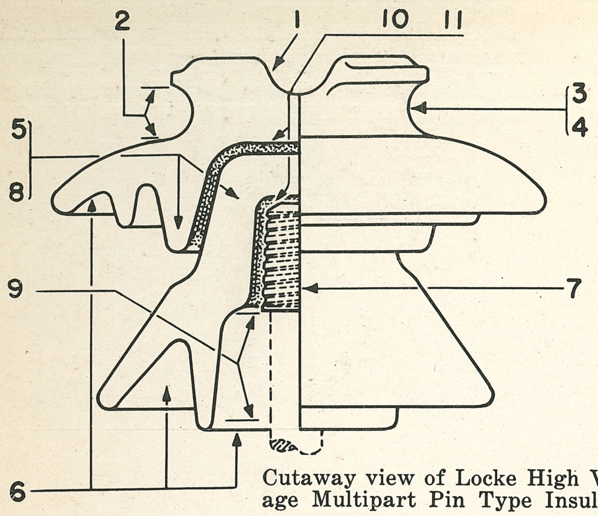
2. The inner petticoat flares out quickly from pin. This assures freedom of arcing from tip of inner skirt to pin, making insulator leakage distance fully effective.

3. The controlled application of Metaglaze and compression glaze assures high resistance to damage from thermal shock and mechanical impact while maintaining excellent electrical and radio noise characteristics. It permits rough handling of Locke Insulators in construction with much less danger of chipping or breaking. Brown glaze is standard. Other colors available on request.

Locke Catalog Number	ASA Class No.	Min. Pin Height Inches	Radio Influence Voltage at 1000 Kc		Flashover—KV				Low Freq. Puncture Voltage KV	Dry Arcing Distance Inches	Leakage Distance Inches	Cantilever Strength Lbs.	Lbs. per C		Std. Pkd. Quan.
			Test Voltage KV	Max. Microvolts	Low Frequency		Impulse 1½ x 40 MS Wave						Net	Pkd.	
					Dry	Wet	Pos.	Neg.							
44NP	55-1	4	5	50	35	20	50	70	50	2¼	4	3000	150	154	50
2NP	55-2	4	5	50	50	25	75	95	70	3⅜	5	2500	150	154	50
9995NP	55-3	5	10	50	65	35	100	130	90	4½	7	2500	250	262	32
23534NP	55-4	5	10	50	70	40	110	140	95	5	9	3000	363	392	12
23535NP	55-5	6	15	100	85	45	140	170	115	6¼	12	3000	538	575	12

See data table notes page 3.
All insulators have 1" pin hole threads

ASA STANDARD C29.6
PIN TYPE INSULATORS
FOR USE ABOVE 23 KV



Cutaway view of Locke High Voltage Multipart Pin Type Insulator

MULTIPART
HIGH VOLTAGE
RADIO NOISE FREED

Locke multipart pin type insulators consist of two or more porcelain shells which are assembled to form an integral unit. This type of construction makes them less vulnerable to damage. Even with one shell broken, the multipart insulator can normally withstand the line voltage for considerable time without difficulty.

VALUABLE FEATURES

1. The contour of the top conductor groove prevents load concentration on any one point. This feature avoids insulator failure or conductor breakage.

2. The top groove is high above the surface of the top shell to give ample space for easy tying. Danger of reducing valuable insulating surface by contact between top shell and conductor is eliminated. The top wire groove will accommodate conductors as large as 336,400 CM, ACSR with armor rods.

3. The side wire groove, placed high in respect to the conductor groove, permits holding the conductor without sharp bends in either the tie wire or the conductor, avoiding conductor crystallization and costly line failure. It will accommodate 4/0 ACSR with armor rods.

4. The large radius of the side wire groove allows the conductor to be placed in this groove for changes in line direction, even when it is protected by armor rods.

5. Design gives maximum flashover value per pound without sacrificing ruggedness or strength.

6. Smooth surfaces offer dirt no hold. Leakage distance is ample and driving rains will clean surface, except under abnormal conditions.

7. Perfect fit of pin threads, within established ASA Standards, permits the insulator to develop its full rated mechanical strength and eliminates corona within the pin hole.

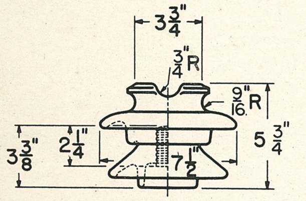
8. The shells are proportioned, as far as practical, for equal voltage distribution between them. This prevents cascading under lightning and assures a puncture value high above the flashover value. It also tends to eliminate corona and gives relative freedom from radio interference.

9. Clearance between shells and particularly between the center shell and pin prevents power leakage sparks. This avoids loss of valuable insulating surfaces, "static" and even occasional flashovers.

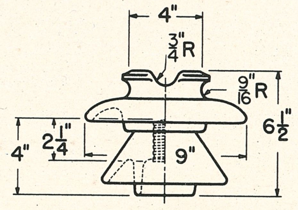
10. Shells are scientifically cemented to prevent porcelain damage. Joints are reduced to a minimum width and have a definite taper. This protects the insulator from stresses due to sudden thermal changes.

11. Compression glaze and Metaglaze assure high resistance to thermal shock and mechanical impact while maintaining excellent electrical and radio noise characteristics. All multipart insulators are furnished with the Metaglaze treatment.

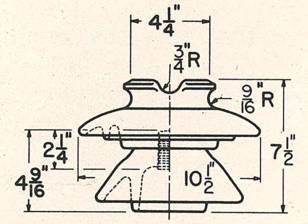
375



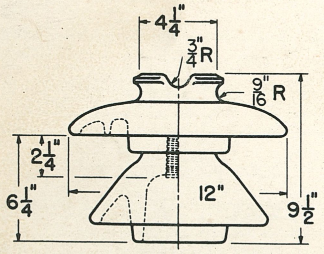
NO. 1027NP



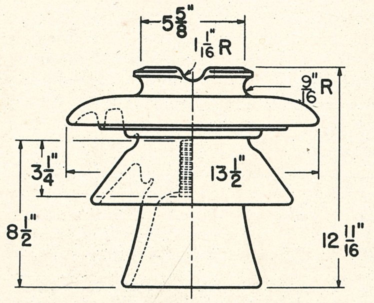
NO. 1035NP



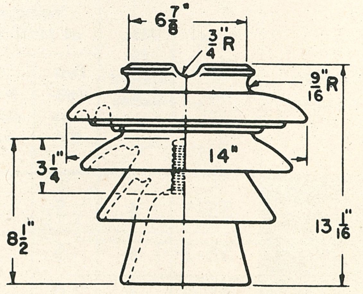
NO. 1044NP



NO. 1055NP

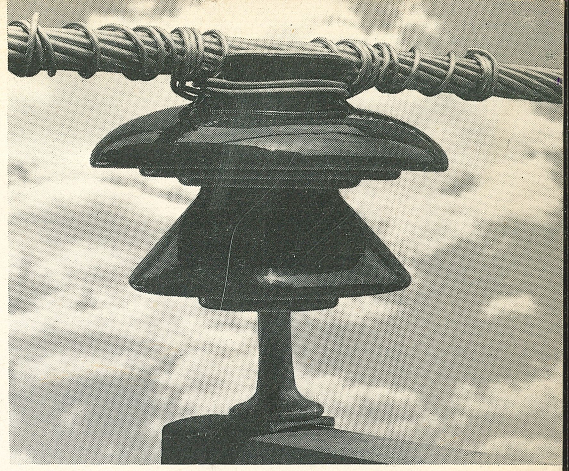


NO. 1066NP

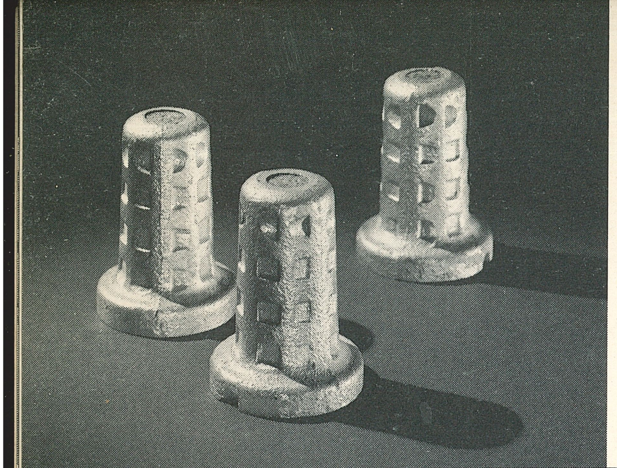


NO. 1070NP

NON-STANDARD
FOR SPECIAL APPLICATIONS



Locke Catalog Number	ASA Class No.	Radio Influence Voltage at 1000 Kc		Min. Pin Height Inches	Flashover—KV				Arcing Distance Inches	Leakage Distance, Inches	Cantilever Strength, Pounds	Lbs. per C		Std. Pkg. Quan.
		Test Voltage KV	Max. Microvolts		Low Frequency		Impulse 1½ x 40 MS Wave					Net	Pkd.	
					Dry	Wet	Pos.	Neg.						
1027NP	56-1	15	100	6	95	60	150	190	7	13	2500	775	850	8
1035NP	56-2	22	100	7	110	70	175	225	8¼	17	3000	1025	1125	8
1044NP	56-3	30	200	8	125	80	200	265	9½	21	3000	1650	1750	4
1055NP	56-4	30	200	10	140	95	225	310	11¼	27	3000	2400	2839	3
1066NP	56-5	44	200	12	175	125	270	340	14	34	3000	3800	4533	3
1070NP	----	44	200	14	180	135	285	360	15¾	41	3000	4600	5800	3



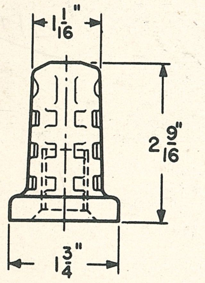
THIMBLES

PIN TYPE INSULATORS

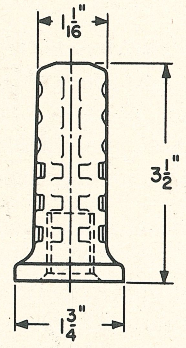
All Locke high voltage pin type insulators are furnished with 1⅜″ thimbles as standard. The use of this size is preferred from the standpoint of economy and availability.

For replacement, and other applications where such standards cannot be used, and to fit pins of older and obsolete types, Locke offers the thimbles below. They can be permanently cemented into the insulators at the factory.

MALLEABLE IRON



NO. 9521

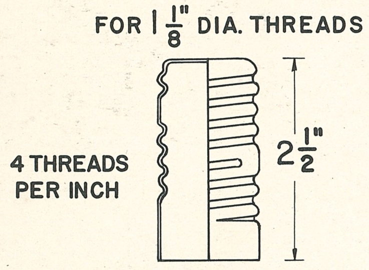


NO. 9522

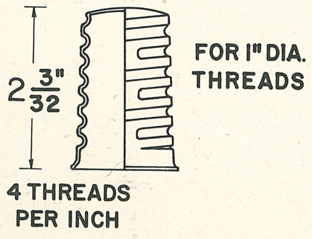
NO. 9521 Galvanized iron thimble for cementing into insulators. For use with pins with ¾″—N.C. thread and for insulators with pin hole depth of 2¼ to 2½″ such as Nos. 1027NP, 1035NP, 1044NP and 1055NP.

NO. 9522 Same as No. 9521, but for insulators with pin hole depth of 3¼ to 3½″, such as Nos. 1066NP and 1070NP.

ZINC



NO. 4302



NO. 77939

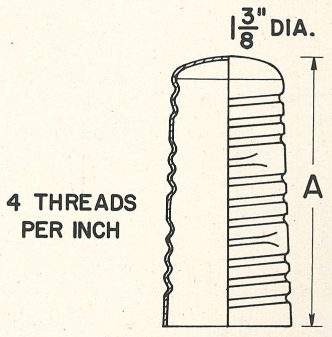


FIG. 1

ASA Std. C29.6 fits 1⅜″ cast lead threads.

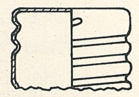


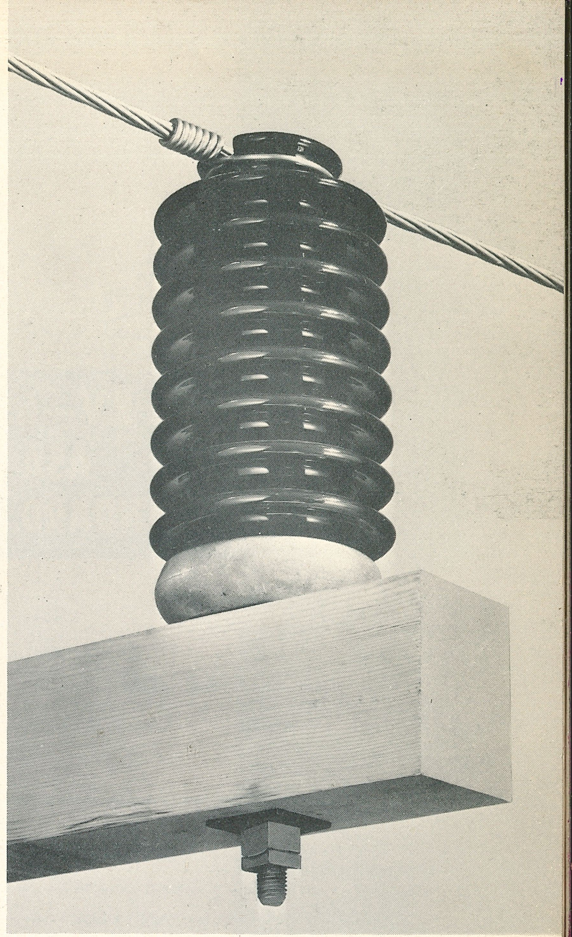
FIG. 2

Locke Cat. No.	A Inches
9543	2¼
9543-1	3¼

Length varies depending upon insulator.

Either Fig. 1 or Fig. 2 can be supplied upon request.

LINE POST INSULATORS



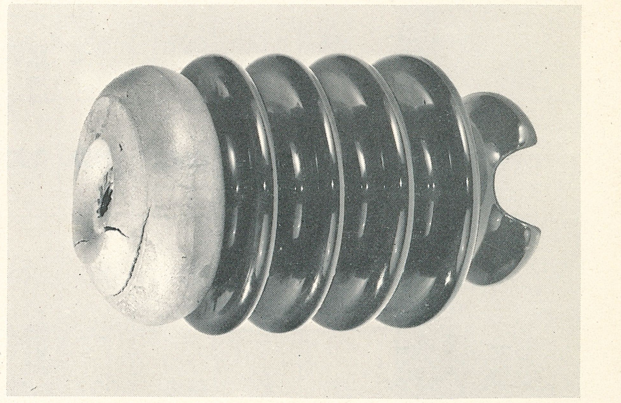
DESIGN FEATURES

WIDE WIRE GROOVES

Demands for power continue to climb. Larger conductors are being used to fill these demands. Locke line posts recognize this need by providing the most generous conductor groove dimensions in the industry, long and deep for proper conductor support, wide for large conductors.

HIGH MECHANICAL STRENGTH

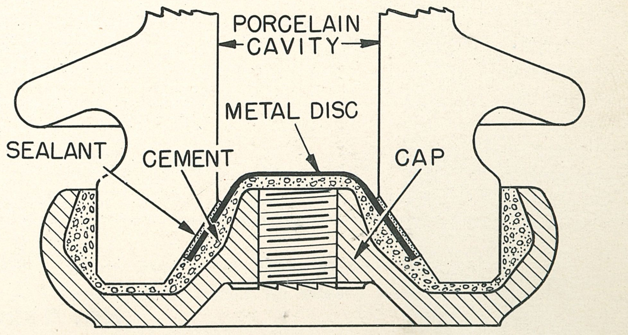
Breaks resulting from impact destroy the insulating ability of insulators, and may cause costly service interruptions. Modern high strength ceramic bodies developed for Locke insulators produce the highest impact and cantilever strengths available. Porcelain columns are the strongest components of the assembly.

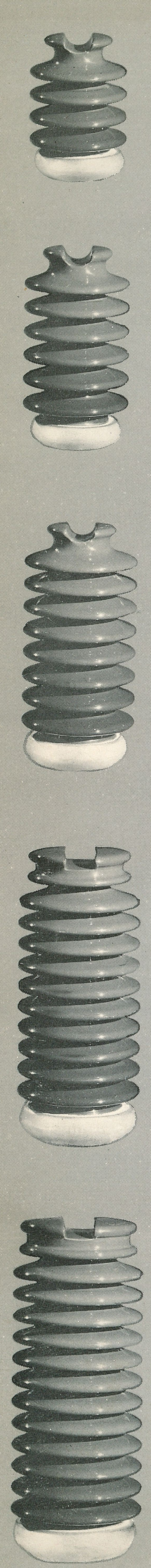


Catalog No. 23202 post insulator after cantilever test equal to 190% of rated strength.

MODERN EFFECTIVE SEALS

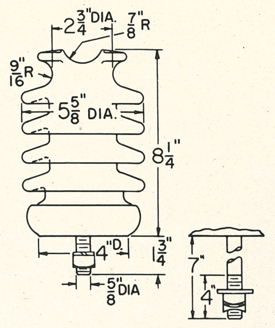
Old fashioned rubber diaphragms depending on friction for stability *do not* assure permanent air tight seals required for long time dependability. The same modern sealing device proved on the Locke station post insulators is incorporated in the line post design. The addition of a desiccant to the hollow column at the time of sealing, first introduced on station posts, is also used in the line post units. This desiccant absorbs any residual moisture in the porcelain cavity.



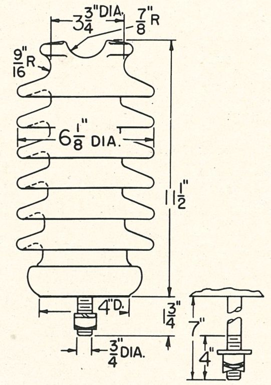


LINE POST INSULATORS

15 KV—69 KV
ASA
STANDARD C29.7



NO. 23202



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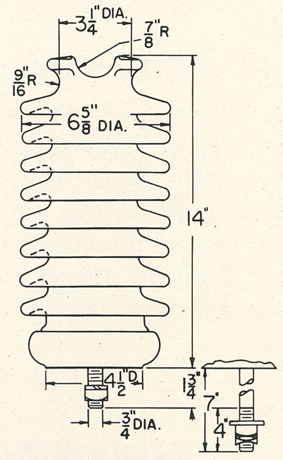
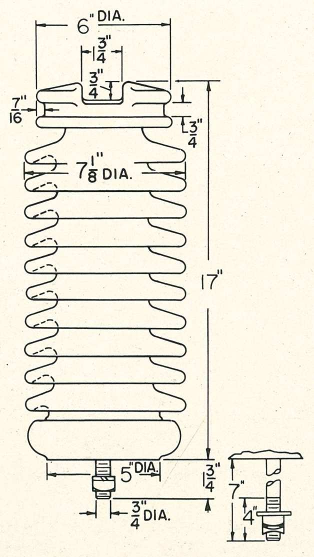


NO. 23205



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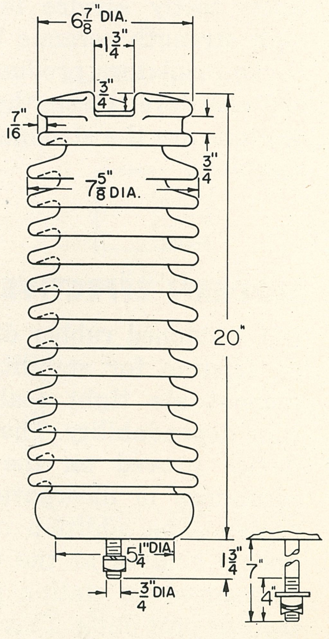
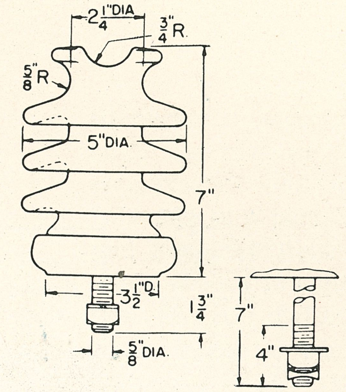
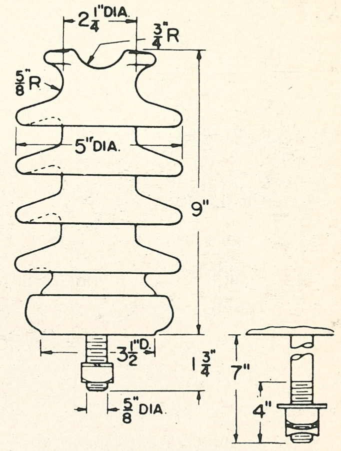


NO. 23208

Distribution line posts 23201 and 23203 are solid one-piece construction.



NO. 23201



NO. 23203

Locke Catalog Number		Stud	ASA Class Number	Typical Line Voltage, KV	Flashover—KV				Radio Influence Voltage—KV		Canti-lever Strength, Pounds	Leakage Distance, Inches	Dry Arcing Distance Inches	Lbs. per C		Std. Pkg. Quan.
					Low Frequency		Impulse		Test Voltage RMS to Ground	Max. RIV, MV at 1000kc						
					Dry	Wet	Pos.	Neg.						Net	Pkd.	
23201	**-10**	None	—	15	80	55	105	130	15	50	1500	11	5¾	700	800	6
	-11	Short	—													
	-12	Long	—													
23203	**-10**	None	—	23	95	65	135	190	20	50	1500	15	7½	900	1000	6
	-11	Short	—													
	-12	Long	—													
23202	**-10**	None	—	23	80	60	130	155	15	100	2800	14	6½	1175	1233	6
	-11	Short	57-1S													
	-12	Long	57-1L													
23204	**-10**	None	—	34.5	110	85	180	205	22	100	2800	22	9½	1750	1800	4
	-11	Short	57-2S													
	-12	Long	57-2L													
23205	**-10**	None	—	46	125	100	210	260	30	200	2800	29	12¼	2625	2800	1
	-11	Short	57-3S													
	-12	Long	57-3L													
23206	**-10**	None	—	69	150	125	255	340	44	200	2800	40	14½	4000	4200	1
	-11	Short	57-4S													
	-12	Long	57-4L													
23208	**-10**	None	—	69	175	150	290	380	44	200	2800	45	17¼	5200	5700	1
	-11	Short	57-5S													
	-12	Long	57-5L													

Locke line posts are available with long studs for wood crossarms, short studs for steel crossarms, and without studs if desirable. Order desired assembly by catalog number and appropriate suffix as shown above. For details of mounting hardware, see next page.

LINE POST INSULATORS

STUDS

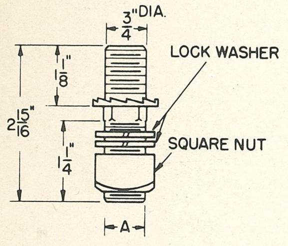


FIGURE I

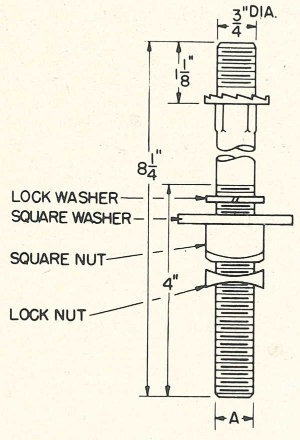


FIGURE 2

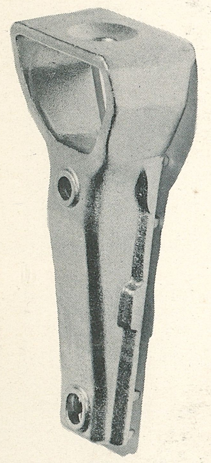
Locke Catalog Number	Fig. No.	Crossarm	A Inches	Lbs. per C		Std. Pkg. Quan.
				Net	Pkd.	
27540	1	Steel	5/8	42	44	250
27541	2	Wood	5/8	127	140	50
27542	1	Steel	3/4	52	54	250
27543	2	Wood	3/4	132	145	50

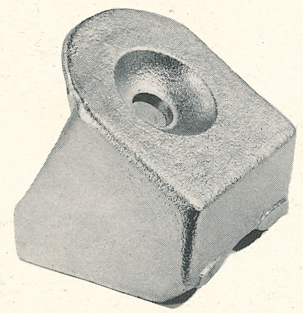
Studs of special lengths can be supplied upon request.

MOUNTING HARDWARE

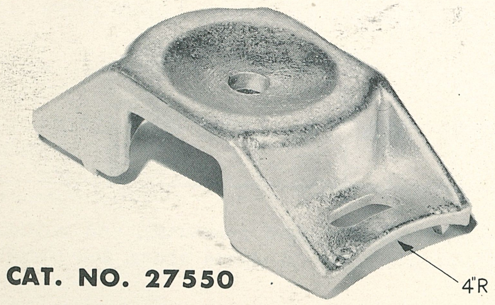
-Malleable Iron, Hot Dip Galvanized

CAT. NO. 27547





CAT. NO. 27549



CAT. NO. 27550

POLE TOP BRACKET

Locke Cat. No.	Max. Mtg. Bolt Diameter	Distance Between Mtg. Bolt Holes	Distance Top Hole Down from Ins. Base	Maximum Insulator Bolt Dia.	Lbs. per C Net
27547	5/8"	8"	5"	3/4"	1092

ANGLE TRANSITION PIECE

Locke Cat. No.	Attachment Bolt Dia.	Maximum Size Crossarm	Maximum Insulator Bolt Dia.	Lbs. per C Net
27549	3/4"	3 3/4" x 4 3/4"	3/4"	388

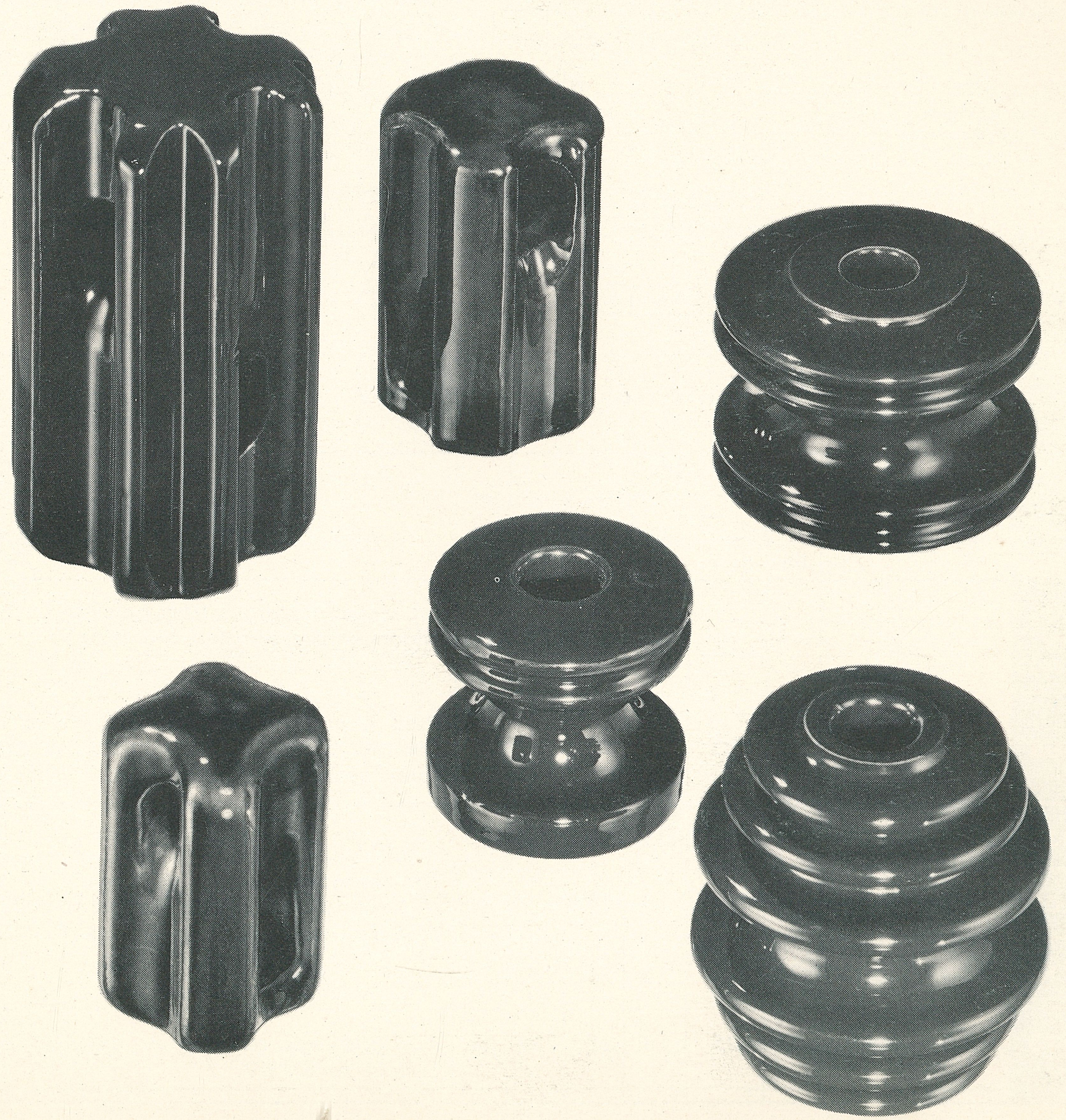
For flat or roofed crossarms

HORIZONTAL INSULATOR BRACKET

Locke Cat. No.	Attachment Bolt Dia.	Distance Between Mtg. Bolt Holes	Maximum Insulator Bolt Dia.	Lbs. per C Net
27550	5/8"	6 3/4"	3/4"	575

SPOOL AND GUY INSULATORS

Locke spool and guy insulators are made of finest electrical porcelain, compression glazed for highest strength. They are used for a wide range of low voltage applications. Spools are generally used with service racks or clevises, on secondary circuits. Larger units are also used for dead ending distribution conductors up to 5,000 volts. Guy insulators are used to insulate guy cables which support poles or structures. They are not normally connected in transmission or distribution circuits and may become energized only under emergency conditions, if a broken conductor falls across a portion of the guy. Both spool and guy insulators are so designed that, in use, the load is supported by compression of the porcelain dielectric. This adds greatly to their strength while maintaining required insulation with extreme compactness and a minimum of weight.

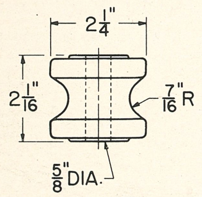


SPOOL INSULATORS

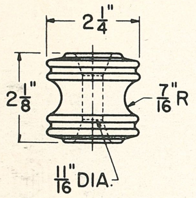
SPOOLS
ASA
STANDARD C29.3

Spools conform to ASA Standards and are uniformly glazed a distinctive brown color as standard. For marking and identification of circuits, white glazed spools are available upon request.

2-INCH

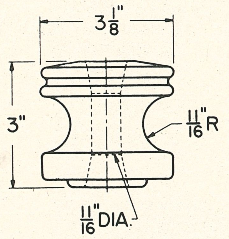


NO. 0606
Dry Process Porcelain for Special Applications

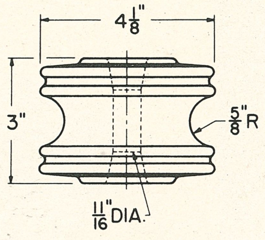


NO. 0608

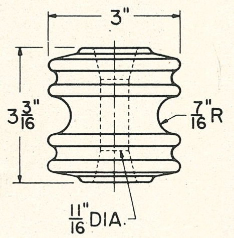
3-INCH



NO. 355

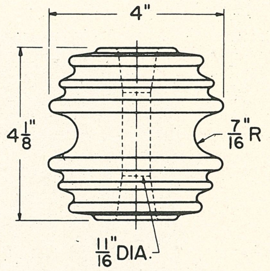


NO. 0716



NO. 0609

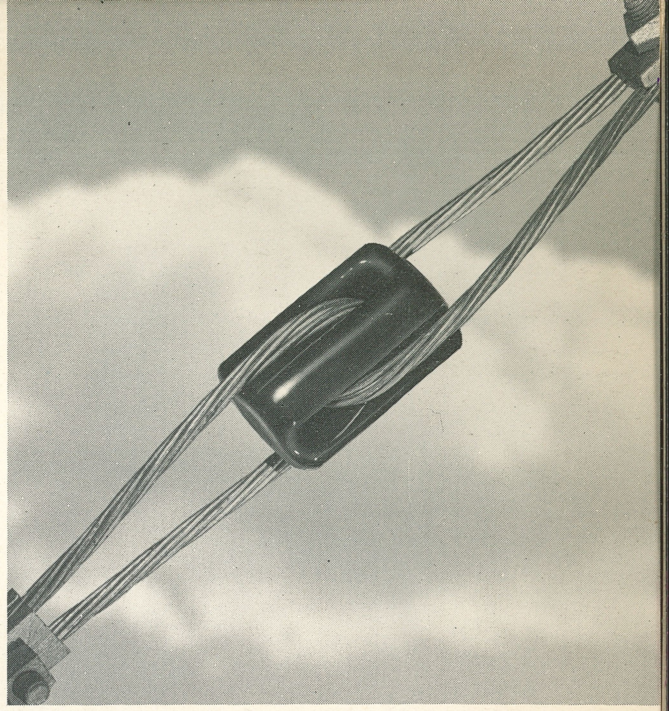
4-INCH



NO. 0613

Locke Catalog Number	ASA Class No.	Transverse Strength Lbs.	Flashover—KV			Lbs. per C		Std. Pkg. Quan.	Principal Use
				Wet					
			Dry	Horiz.	Vert.	Net	Pkd.		
0606 Dry Process	—	—	—	—	—	42	44	100	For secondary drops from poles to building, seldom on circuits rated over 600 V.
0608	53-1	2000	20	10	8	48	51	100	Used principally for secondary drops from pole to building. Seldom used on circuits rated over 600 V.
355	53-2	3000	25	15	12	122	130	50	For secondary circuits as tangent supports and dead-ends. Also as dead-ends on primary distribution circuits up to 4 KV.
0609	53-3	4000	25	15	12	128	136	50	
0716	53-4	4500	25	15	12	230	243	24	
0613	53-5	6000	35	25	18	226	238	24	As dead-ends on primary distribution circuits up to 6.9 KV.

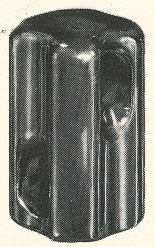
GUY INSULATORS

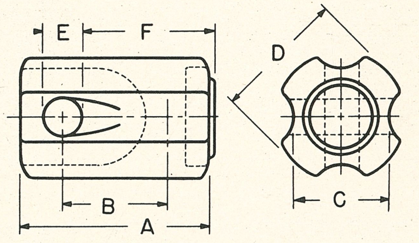


CLOSED END
ASA
STANDARD C29.4

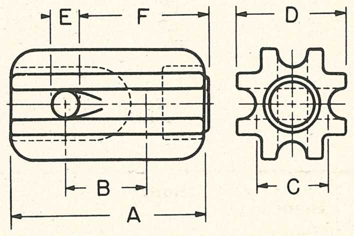
Locke guy strain insulators, made of brown compression glazed wet process porcelain, provide highest quality insulation for low voltage circuits. Rugged strength gives relative freedom from breakage due to impact or rough handling. They have low flashover values and relatively short leakage distances, yet provide required insulation with minimum size and weight. Maximum strength is obtained from porcelain by interlocking the guy cables so that the load places the porcelain between the holes in compression. Cable grooves are rounded and smooth to minimize strand stresses. Guy strain insulators give protection in the event a broken conductor accidentally energizes a guy wire. They may also be used for dead-ends on low voltage circuits.

A and D are maximum average design dimensions. Individual units may exceed these values by 3%. Dimensions C and E have a tolerance of plus or minus 1/16″. F is shown as maximum.

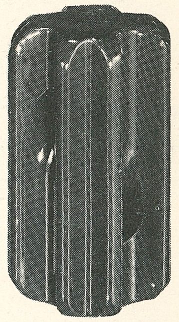




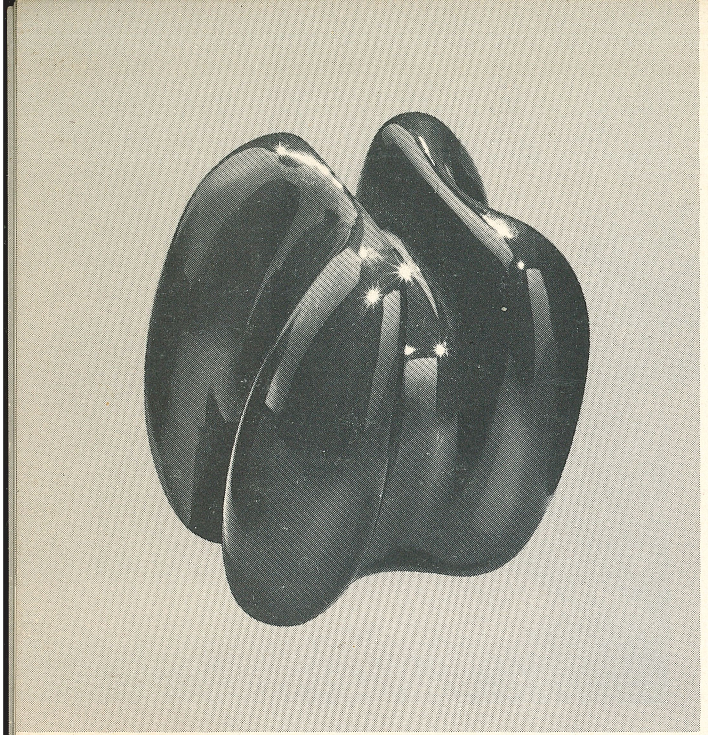
NOS. 502 TO 506



NOS. 7665 AND 7666



Locke Catalog Number	ASA Class No.	Dimensions—Inches (see text above).						Mech. Strength Lbs.	Flashover—KV		Leakage Distance Inches	Max. Cable Diam. Inches	Lbs. per C		Std. Pkg. Quan.
		A	B	C	D	E	F		Dry	Wet			Net	Pkd.	
502	54-1	3½	1¾±⅛	1¾	2½	⅝	2½	10000	25	12	1⅝	⅜	94	102	50
504	54-2	4¼	2¼±⅛	2⅛	2⅞	⅞	3	12000	30	15	1⅞	½	146	154	50
506	54-3	5½	3⅛±¼	2⅜	3⅜	1	4 1/16	20000	35	18	2¼	⅝	256	272	25
7666	54-4	6¾	2⅝±¼	2⅜	3½	1	4½	20000	40	23	3	⅝	375	395	20
7665	Non-Std.	5¾	2⅜±⅛	2⅛	3¼	⅞	3 13/16	12000	30	15	2 9/16	½	280	296	25

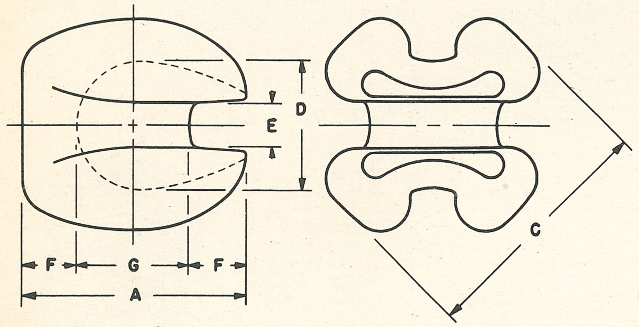


GUY INSULATORS

OPEN END TYPE

For installations where unusually high strength is required, Locke open end guy insulators are recommended. In addition to their other uses, they are extensively used in radio tower guys and in marine radio work. These insulators are generally used with strand having pre-formed interlocking loops. They are inserted into the guys after erection. Their high mechanical strength and ease of installation makes them highly desirable for special applications beyond the strength range of standard guy insulators.

Locke open end guy insulators are made of brown, compression glazed wet-process porcelain only and conform to U. S. Navy specification MIL-I-17918.



Locke Catalog Number	Cable Size Inches	Dimensions—Inches						Mechanical Strength Lbs.	Flashover—KV		Lbs. per C		Std. Pkg. Quan.
		A	C	D	E	F	G		Dry	Wet	Net	Pkd.	
24273	¼	3	3³⁄₁₆	1½	⅜	⅝	1¾	12,000	16	7.5	110	126	32
24272	⅜	3⁵⁄₁₆	3⁹⁄₁₆	1¾	⁹⁄₁₆	¾	1¹³⁄₁₆	15,000	15	8	150	160	32
24210	½	3¾	4⅛	2¹⁄₁₆	¹¹⁄₁₆	²⁹⁄₃₂	1¹⁵⁄₁₆	20,000	16	8	200	206	32
24212	⅝	4⁵⁄₁₆	4¹¹⁄₁₆	2⁷⁄₁₆	⅞	1³⁄₃₂	2⅛	30,000	18	9	300	316	18
24369	¾	4⅝	5⁵⁄₁₆	2¹³⁄₁₆	1¹⁄₁₆	1³⁄₁₆	2¼	42,000	21	10.5	435	458	12
24213	⅞	5½	6⁷⁄₁₆	3½	1⁵⁄₁₆	1¹³⁄₃₂	2¹¹⁄₁₆	57,000	25	13	700	758	8
24221	1	6	7⅜	4	1½	1½	3	78,000	30	15	1020	1275	8

COMPARATIVE CATALOG NUMBERS*

PIN TYPE INSULATORS

ONE PIECE

LOCKE	A.B. CHANCE	I.T.E. (VICTOR)	KNOX	LAPP	LINE MATERIALS	O.B.	PINCO (JOSLYN)	THOMAS
44NP	6180N	4R	237S	591AR	NP6D1	38107	L62R	1111QT
2NP	6194N	2R	253S	6190R	NP8D2	38147	L223R	1205QT
9995NP	6195N	5R	261S	6184R	NP9D2	38148	L63R	1177QT
23534NP	6198N	6R	366S	6183R	NP11D2	38149	L2064R	1262QT
23535NP	6199N	9R	380S	7061R	NP12D2	38151	L367R	1157QT

MULTIPART

1027NP	6423MN	127R	2027S	6179R	NP2T2	38246	L69R	2117QT
1035NP	6434MN	133R	2033S	6178R	NP2T4	38222	L72R	2125QT
1044NP	6446MN	245R	2035S	5440R	NP2T6	38223	L75R	2124QT
1055NP	6455MN	255R	2055S	5940R	NP2T8	38255	L428AR	2126QT
1066NP	6469MN	366R	3066S	6173R	NP3T2	38352	L435R	3060QT
1070NP						38270		

LINE POSTS

23201-10						43400P10		
23201-11				4320		43400P20		
23201-12				4420		43400P30		
23203-10						43401P10		
23203-11				4327		43401P20		
23203-12				4427		43401P30		
23202-10						37610P10		
23202-11		2125		9325		37610P20		
23202-12		2225		9425		37610P30		
23204-10						37620P10		
23204-11		2135		9335		37620P20		
23204-12		2235		9435		37620P30		
23205-10						41640P10		
23205-11		2145		9345		41640P20		
23205-12		2245		9445		41640P30		
23206-10						41650P10		
23206-11				9355		41650P20		
23206-12				9455		41650P30		
23208-10						41670P10		
23208-11				9366		41670P20		
23208-12				9466		41670P30		

SPOOLS

0606	5207A		300D					6997D
0608	5112	2011	303			36139		12017
355	5101	2012	310W					5897
0609	5104	2013	320	9002		36361		12018
0716	5119	2026	306			38911		12450
0613	5116	2014	307	8628		36140		12082

GUY INSULATORS

CLOSED END

502	502	502	502	8502	NG2A1	31502	L502	602
504	504	504	504	8504	NG3A1	31504	L504	604A
506	506	506	506	8506	NG4A1	31506	L506	610
7666	708	556	708	5452	NG10A1	31352	L289	515
7665	706	554	706	5451	NG9A1	31351	L284	511

OPEN END

24273	550			10659				
24272	551			10660				
24210	552			7080				
24212	553			7341				
24369	554							
24213	555			10662				
24221	556			6696				

*These are approximate substitutes, therefore dimensions and ratings should be checked with the supplier.